TrigonometryExercise7 Answers for No.9844

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^\circ & a = (24\sqrt{2}\sqrt{3} = 58.79) \\ B = 75^\circ & b = (12\sqrt{2}\sqrt{3} + 36\sqrt{2} = 80.31) \\ C = 60^\circ & c = 72 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 105^\circ & a = (36\sqrt{2} + 36\sqrt{2}\sqrt{3} = 139.09) \\ B = 30^\circ & b = 72 \\ C = 45^\circ & c = (72\sqrt{2} = 101.82) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^\circ & a = (18\sqrt{2}\sqrt{3} = 44.09) \\ B = 60^\circ & b = 54 \\ C = 75^\circ & c = (9\sqrt{2}\sqrt{3} + 27\sqrt{2} = 60.23) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 75^\circ & a = (21 + 21\sqrt{3} = 57.37) \\ B = 60^\circ & b = (21\sqrt{2}\sqrt{3} = 51.44) \\ C = 45^\circ & c = 42 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (900\sqrt{3} - 900 = 658.846)] \\ .2 = [areaABC = (300\sqrt{3} + 900 = 1419.615)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^\circ, C = 90^\circ, c = 144, areaABC = (2592\sqrt{3} = 4489.476)] \\ .2 = [B = 120^\circ, C = 30^\circ, c = 72, areaABC = (1296\sqrt{3} = 2244.738)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.9872

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 105^{o} & a = (24 + 24\sqrt{3} = 65.57) \\ B = 45^{o} & b = 48 \\ C = 30^{o} & c = (24\sqrt{2} = 33.94) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 60^{o} & a = 72 \\ B = 75^{o} & b = (12\sqrt{2}\sqrt{3} + 36\sqrt{2} = 80.31) \\ C = 45^{o} & c = (24\sqrt{2}\sqrt{3} = 58.79) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 60^{o} & a = (36\sqrt{2}\sqrt{3} = 88.18) \\ B = 45^{o} & b = 72 \\ C = 75^{o} & c = (36 + 36\sqrt{3} = 98.35) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 105^{o} & a = (24\sqrt{2} + 24\sqrt{2}\sqrt{3} = 92.73) \\ B = 45^{o} & b = (48\sqrt{2} = 67.88) \\ C = 30^{o} & c = 48 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = \left[areaABC = \left(\frac{441}{2} + \frac{441\sqrt{3}}{2} = 602.417 \right) \right] \\ .2 = [areaABC = (243\sqrt{3} + 729 = 1149.888)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = \left[B = 60^{o}, C = 75^{o}, c = (21 + 21\sqrt{3} = 57.37), areaABC = \left(\frac{441\sqrt{3}}{2} + \frac{1323}{2} = 1043.417 \right) \right] \\ .2 = \left[B = 120^{o}, C = 15^{o}, c = (21\sqrt{3} - 21 = 15.37), areaABC = \left(\frac{1323}{2} - \frac{441\sqrt{3}}{2} = 279.583 \right) \right] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.9873

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^o & a = 66 \\ B = 30^o & b = (33\sqrt{2} = 46.67) \\ C = 105^o & c = (33 + 33\sqrt{3} = 90.16) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 120^o & a = (60\sqrt{3} = 103.92) \\ B = 30^o & b = 60 \\ C = 30^o & c = 60 \end{bmatrix} \end{bmatrix}, \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^o & a = 48 \\ B = 75^o & b = (24 + 24\sqrt{3} = 65.57) \\ C = 60^o & c = (24\sqrt{2}\sqrt{3} = 58.79) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^o & a = (22\sqrt{2}\sqrt{3} = 53.89) \\ B = 60^o & b = 66 \\ C = 75^o & c = (11\sqrt{2}\sqrt{3} + 33\sqrt{2} = 73.61) \end{bmatrix} \end{bmatrix}, \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (2025\sqrt{3} - 2025 = 1482.403)] \\ .2 = [areaABC = (1944 - 648\sqrt{3} = 821.631)] \end{bmatrix}, \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 90^o, c = 108, areaABC = (1458\sqrt{3} = 2525.330)] \\ .2 = [B = 120^o, C = 30^o, c = 54, areaABC = (729\sqrt{3} = 1262.665)] \end{bmatrix}, \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.9884

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^{o} & a = (48\sqrt{2} = 67.88) \\ B = 30^{o} & b = 48 \\ C = 105^{o} & c = (24\sqrt{2} + 24\sqrt{2}\sqrt{3} = 92.73) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 60^{o} & a = 42 \\ B = 75^{o} & b = (7\sqrt{2}\sqrt{3} + 21\sqrt{2} = 46.84) \\ C = 45^{o} & c = (14\sqrt{2}\sqrt{3} = 34.29) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 75^{o} & a = (14\sqrt{2}\sqrt{3} + 42\sqrt{2} = 93.69) \\ B = 60^{o} & b = 84 \\ C = 45^{o} & c = (28\sqrt{2}\sqrt{3} = 68.59) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 30^{o} & a = 60 \\ B = 15^{o} & b = (30\sqrt{2}\sqrt{3} - 30\sqrt{2} = 31.06) \\ C = 135^{o} & c = (60\sqrt{2} = 84.85) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (882\sqrt{3} + 2646 = 4173.669)] \\ .2 = [areaABC = (1089\sqrt{3} = 1886.203)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^{o}, C = 90^{o}, c = 96, areaABC = (1152\sqrt{3} = 1995.323)] \\ .2 = [B = 120^{o}, C = 30^{o}, c = 48, areaABC = (576\sqrt{3} = 997.661)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

TrigonometryExercise7 Answers for No.9885

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 75^{o} & a = (8\sqrt{2}\sqrt{3} + 24\sqrt{2} = 53.54) \\ B = 45^{o} & b = (16\sqrt{2}\sqrt{3} = 39.19) \\ C = 60^{o} & c = 48 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 105^{o} & a = (45\sqrt{2} + 45\sqrt{2}\sqrt{3} = 173.87) \\ B = 30^{o} & b = 90 \\ C = 45^{o} & c = (90\sqrt{2} = 127.28) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 15^{o} & a = (42\sqrt{2}\sqrt{3} - 42\sqrt{2} = 43.48) \\ B = 135^{o} & b = (84\sqrt{2} = 118.79) \\ C = 30^{o} & c = 84 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^{o} & a = 30 \\ B = 30^{o} & b = (15\sqrt{2} = 21.21) \\ C = 105^{o} & c = (15 + 15\sqrt{3} = 40.98) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (192\sqrt{3} + 576 = 908.554)] \\ .2 = \begin{bmatrix} areaABC = \left(\frac{441\sqrt{3}}{2} + \frac{1323}{2} = 1043.417 \right) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^{o}, C = 75^{o}, c = (36 + 36\sqrt{3} = 98.35), areaABC = (648\sqrt{3} + 1944 = 3066.369)] \\ .2 = [B = 120^{o}, C = 15^{o}, c = (36\sqrt{3} - 36 = 26.35), areaABC = (1944 - 648\sqrt{3} = 821.631)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.9895

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^{o} & a = 90 \\ B = 15^{o} & b = (45\sqrt{3} - 45 = 32.94) \\ C = 120^{o} & c = (45\sqrt{2}\sqrt{3} = 110.23) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^{o} & a = (90\sqrt{2} = 127.28) \\ B = 105^{o} & b = (45\sqrt{2} + 45\sqrt{2}\sqrt{3} = 173.87) \\ C = 30^{o} & c = 90 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^{o} & a = (22\sqrt{2}\sqrt{3} = 53.89) \\ B = 60^{o} & b = 66 \\ C = 75^{o} & c = (11\sqrt{2}\sqrt{3} + 33\sqrt{2} = 73.61) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 120^{o} & a = (36\sqrt{2}\sqrt{3} = 88.18) \\ B = 15^{o} & b = (36\sqrt{3} - 36 = 26.35) \\ C = 45^{o} & c = 72 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (108\sqrt{3} + 324 = 511.061)] \\ .2 = [areaABC = (882\sqrt{3} + 2646 = 4173.669)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^{o}, C = 90^{o}, c = 168, areaABC = (3528\sqrt{3} = 6110.675)] \\ .2 = [B = 120^{o}, C = 30^{o}, c = 84, areaABC = (1764\sqrt{3} = 3055.338)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

TrigonometryExercise7 Answers for No.9898

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 105^{o} & a = (33\sqrt{2} + 33\sqrt{2}\sqrt{3} = 127.50) \\ B = 30^{o} & b = 66 \\ C = 45^{o} & c = (66\sqrt{2} = 93.34) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^{o} & a = 90 \\ B = 30^{o} & b = (45\sqrt{2} = 63.64) \\ C = 105^{o} & c = (45 + 45\sqrt{3} = 122.94) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^{o} & a = (10\sqrt{2}\sqrt{3} = 24.49) \\ B = 60^{o} & b = 30 \\ C = 75^{o} & c = (5\sqrt{2}\sqrt{3} + 15\sqrt{2} = 33.46) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^{o} & a = 48 \\ B = 120^{o} & b = (24\sqrt{2}\sqrt{3} = 58.79) \\ C = 15^{o} & c = (24\sqrt{3} - 24 = 17.57) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = \left[areaABC = \left(\frac{441}{2} + \frac{441\sqrt{3}}{2} = 602.417 \right) \right] \\ .2 = [areaABC = (2025\sqrt{3} - 2025 = 1482.403)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = \left[B = 60^{o}, C = 75^{o}, c = (45 + 45\sqrt{3} = 122.94), areaABC = \left(\frac{2025\sqrt{3}}{2} + \frac{6075}{2} = 4791.201 \right) \right] \\ .2 = \left[B = 120^{o}, C = 15^{o}, c = (45\sqrt{3} - 45 = 32.94), areaABC = \left(\frac{6075}{2} - \frac{2025\sqrt{3}}{2} = 1283.799 \right) \right] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

TrigonometryExercise7 Answers for No.9899

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 105^o & a = (36\sqrt{2} + 36\sqrt{2}\sqrt{3} = 139.09) \\ B = 45^o & b = (72\sqrt{2} = 101.82) \\ C = 30^o & c = 72 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 75^o & a = (15 + 15\sqrt{3} = 40.98) \\ B = 45^o & b = 30 \\ C = 60^o & c = (15\sqrt{2}\sqrt{3} = 36.74) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^o & a = 42 \\ B = 30^o & b = 42 \\ C = 120^o & c = (42\sqrt{3} = 72.75) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 60^o & a = 66 \\ B = 75^o & b = (11\sqrt{2}\sqrt{3} + 33\sqrt{2} = 73.61) \\ C = 45^o & c = (22\sqrt{2}\sqrt{3} = 53.89) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (300\sqrt{3} + 900 = 1419.615)] \\ .2 = [areaABC = (1764\sqrt{3} - 1764 = 1291.338)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 75^o, c = (42 + 42\sqrt{3} = 114.75), areaABC = (882\sqrt{3} + 2646 = 4173.669)] \\ .2 = [B = 120^o, C = 15^o, c = (42\sqrt{3} - 42 = 30.75), areaABC = (2646 - 882\sqrt{3} = 1118.331)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.9920

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^o & a = (14\sqrt{2}\sqrt{3} = 34.29) \\ B = 60^o & b = 42 \\ C = 75^o & c = (7\sqrt{2}\sqrt{3} + 21\sqrt{2} = 46.84) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^o & a = 48 \\ B = 30^o & b = (24\sqrt{2} = 33.94) \\ C = 105^o & c = (24 + 24\sqrt{3} = 65.57) \end{bmatrix} \end{bmatrix}, \ , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^o & a = 78 \\ B = 15^o & b = (39\sqrt{2}\sqrt{3} - 39\sqrt{2} = 40.38) \\ C = 135^o & c = (78\sqrt{2} = 110.31) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 30^o & a = (24\sqrt{2} = 33.94) \\ B = 105^o & b = (24 + 24\sqrt{3} = 65.57) \\ C = 45^o & c = 48 \end{bmatrix} \end{bmatrix}, \ , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (882\sqrt{3} + 2646 = 4173.669)] \\ .2 = [areaABC = (588\sqrt{3} + 1764 = 2782.446)] \end{bmatrix}, \ , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 90^o, c = 168, areaABC = (3528\sqrt{3} = 6110.675)] \\ .2 = [B = 120^o, C = 30^o, c = 84, areaABC = (1764\sqrt{3} = 3055.338)] \end{bmatrix}, \ , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

TrigonometryExercise7 Answers for No.10000

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 120^o & a = (36\sqrt{3} = 62.35) \\ B = 30^o & b = 36 \\ C = 30^o & c = 36 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 60^o & a = 30 \\ B = 45^o & b = (10\sqrt{2}\sqrt{3} = 24.49) \\ C = 75^o & c = (5\sqrt{2}\sqrt{3} + 15\sqrt{2} = 33.46) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 75^o & a = (21 + 21\sqrt{3} = 57.37) \\ B = 60^o & b = (21\sqrt{2}\sqrt{3} = 51.44) \\ C = 45^o & c = 42 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 60^o & a = 36 \\ B = 75^o & b = (6\sqrt{2}\sqrt{3} + 18\sqrt{2} = 40.15) \\ C = 45^o & c = (12\sqrt{2}\sqrt{3} = 29.39) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (507\sqrt{3} + 1521 = 2399.150)] \\ .2 = [areaABC = (1296\sqrt{3} = 2244.738)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 75^o, c = (42 + 42\sqrt{3} = 114.75), areaABC = (882\sqrt{3} + 2646 = 4173.669)] \\ .2 = [B = 120^o, C = 15^o, c = (42\sqrt{3} - 42 = 30.75), areaABC = (2646 - 882\sqrt{3} = 1118.331)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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